

ENZYMATIC LABELING AND DETECTION  
OF DNA HYBRIDIZATION PROBES

**ABSTRACT OF THE DISCLOSURE**

- Methods and markers for identifying and detecting nucleic acids
- 5 using a linear amplification scheme are provided. The methods use chain  
extending enzymes, such as telomerases, to label probes hybridized to  
target nucleic acid products, including amplification products, to render  
them readily detectable. The methods may be performed as  
homogeneous or heterogeneous reactions. The methods provided herein
- 10 can be used with any known method involving detection of a hybridized  
probe.